

International Application No
PCT/JP2004/001024

IPC 7 A61F2/00 A61L27/38 C12N5/06 A61K31/715

B. FIELDS SEARCHED

IPC 7 A61L C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

EPO-Internal, BIOSIS, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 432 711 B1 (DINSMORE JONATHAN H ET AL) 13 August 2002 (2002-08-13)	1,2,8, 10-17, 22,23
Y	abstract column 5, line 62 - column 6, line 25; examples 1-3 ----- -/--	18-21, 24-26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

'&' document member of the same patent family

Date of the actual completion of the international search

1 July 2004

Date of mailing of the international search report

12/08/2004

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>SHIMIZU TATSUYA ET AL: "Fabrication of pulsatile cardiac tissue grafts using a novel 3-dimensional cell sheet manipulation technique and temperature-responsive cell culture surfaces."</p> <p>CIRCULATION RESEARCH. 22 FEB 2002, vol. 90, no. 3, 22 February 2002 (2002-02-22), pages e40-E48, XP002285777</p> <p>ISSN: 1524-4571</p> <p>cited in the application</p> <p>the whole document</p>	18-21, 24-26
Y	<p>TERUO OKANO: "Cardiac tissue reconstruction based on cell sheet engineering"</p> <p>JAPANESE CIRCULATION SOCIETY, 'Online! 2002, pages 1-4, XP002285778</p> <p>Retrieved from the Internet:</p> <p>URL: http://www.j-circ.or.jp/english/sessions/reports/66th-ss/okano.htm</p> <p>'retrieved on 2004-06-23!</p> <p>the whole document</p>	18-21, 24,26
X	<p>WO 01/07568 A (DIACRIN INC)</p> <p>1 February 2001 (2001-02-01)</p> <p>page 2, lines 18-24</p> <p>page 3, columns 15-24</p> <p>page 33, line 14 - page 34, line 7</p>	1,5,6, 9-17,22, 23
X	<p>KELLAR ROBERT S ET AL: "Scaffold-based three-dimensional human fibroblast culture provides a structural matrix that supports angiogenesis in infarcted heart tissue"</p> <p>CIRCULATION, vol. 104, no. 17, 23 October 2001 (2001-10-23), pages 2063-2068, XP002285779</p> <p>ISSN: 0009-7322</p> <p>abstract</p> <p>page 2064, left-hand column, paragraph 2 -</p> <p>page 2065, right-hand column, paragraph 1</p> <p style="text-align: center;">-/--</p>	1,6,10, 16,17, 22,23

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MIYAGAWA SHIGERU ET AL: "A tissue engineered contractile cardiac graft improves the cardiac performance in infarct rat heart" 23 October 2001 (2001-10-23), CIRCULATION, VOL. 104, NR. 17 SUPPLEMENT, PAGE(S) II.599 , SCIENTIFIC SESSIONS 2001 OF THE AMERICAN HEART ASSOCIATION; ANAHEIM, CALIFORNIA, USA; NOVEMBER 11-14, 2001 , XP008031972 ISSN: 0009-7322 abstract	1, 10-15, 17-24, 26
P, A	BACH A D ET AL: "Expression of Trisk 51, agrin and nicotinic-acetylcholine receptor epsilon-subunit during muscle development in a novel three-dimensional muscle-neuronal co-culture system." CELL & TISSUE RESEARCH, vol. 314, no. 2, November 2003 (2003-11), pages 263-274, XP002285780 ISSN: 0302-766X abstract page 265, left-hand column, paragraph 4 - right-hand column, paragraph 1 page 266, right-hand column, paragraph 1 page 269, right-hand column, paragraph 1 - page 270, left-hand column, paragraph 1	1, 4, 5, 9-16

INTERNATIONAL SEARCH REPORT

information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6432711	B1	13-08-2002	US 2002187550 A1 12-12-2002
		CA 2174746 A1 11-05-1995	
		EP 0725817 A1 14-08-1996	
		WO 9512665 A1 11-05-1995	
WO 0107568	A	01-02-2001	AU 770889 B2 04-03-2004
		AU 6234600 A 13-02-2001	
		CA 2378643 A1 01-02-2001	
		EP 1200559 A2 02-05-2002	
		JP 2003505475 T 12-02-2003	
		WO 0107568 A2 01-02-2001	
		US 2003113301 A1 19-06-2003	
		US 6673604 B1 06-01-2004	

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. type of material
- ☒ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☒ in written format
- ☒ in computer readable form
- c. time of filing/furnishing
- ☒ contained in the international application as filed
- ☐ filed together with the international application in computer readable form
- ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

PCT REQUEST

Original (for SUBMISSION)

VIII-5-1	Declaration: Non-prejudicial disclosure or exceptions to lack of novelty Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)): Name (LAST, First)	in relation to this international application Cardio Incorporated declares that the subject matter claimed in this international application was disclosed as follows:
VIII-5-1(i)	Kind of disclosure:	other: Scientific Meeting
VIII-5-1(ii)	Date of disclosure:	28 March 2003 (28.03.2003)
VIII-5-1(iii)	Title of disclosure:	The 67th Annual Scientific Meeting of the Japanese Circulation Society
VIII-5-1(iv)	Place of disclosure:	Room 10
VIII-5-1(i)	Kind of disclosure:	other: The Website on the Internet
VIII-5-1(ii)	Date of disclosure:	28 March 2003 (28.03.2003)
VIII-5-1(iii)	Title of disclosure:	The 67th Annual Scientific Meeting of the Japanese Circulation Society
VIII-5-1(v)	This declaration is made for the purposes of:	all designations